



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : **Confirmation No. 8290**
Sumio IJIMA et al. : Attorney Docket No. 2004_1057A
Serial No. 10/500,798 : Group Art Unit 1754
Filed July 7, 2004 : Examiner Daniel McCracken
GRAPHITE NANOSPHERES AND : **Mail Stop: AMENDMENT**
METHOD FOR PREPARING THE SAME

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEES FOR THIS PAPER TO DEPOSIT
ACCOUNT NO 23-0975

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☐ each U.S. Patent and U.S. Patent application publication;
- ☐ each reference previously cited in the international application PCT/_____; and/or
- ☐ each reference previously cited in prior parent application Serial No. _____.

1a. ☐ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

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before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. ☒ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☒ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

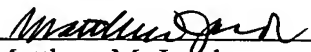
3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☐ a full or partial English language translation submitted herewith,
 - b. ☐ a foreign patent office search report (in the English language) submitted herewith,
 - c. ☐ the concise explanation contained in the specification of the present application at page,
 - d. ☐ the concise explanation set forth in the attached English language abstract,
 - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference:
5. ☒ A foreign patent office (International) search report citing one or more of the references is of record.
6. ☐ Statement Under 37 CFR 1.704(d)

Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign Patent Office in a counterpart application, and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Sumio IIJIMA et al.

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September 6, 2007

Sheet 1 of 1 INFORMATION DISCLOSURE STATEMENT							
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: September 6, 2007				ATTY DOCKET NO. 2004_1057A APPLICANT Sumio IIJIMA et al. FILING DATE July 7, 2004		SERIAL NO. 10/500,798 GROUP 1754	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	AA	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AK	Yahachi SAITO et al., " <u>Growth and structure of graphitic tubules and polyhedral particles in arc-discharge</u> ", Chemical Physics Letters, Vol. 204, No. 3.4, pages 277-282 (1993)					
	AL	Daniel UGARTE, " <u>Curling and closure of graphitic networks under electron-beam irradiation</u> ", Letters to Nature, Nature, Vol. 359, pages 707-709 (1992)					
	AM	Daisuke KASUYA et al., " <u>Formation of C₆₀ using CO₂ laser vaporization of graphite at room temperature</u> ", Chemical Physics Letters, Vol. 337, pages 25-30 (2001)					
	AN	F. KOKAI et al., " <u>Emission Imaging Spectroscopic and Shadowgraphic Studies on the Growth Dynamics of Graphitic Carbon Particles Synthesized by CO₂ Laser Vaporization</u> ", J. Phys. Chem. B, Vol. 103, pages 8686-8693 (1999)					
	AO	F. KOKAI et al., " <u>Laser vaporization synthesis of polyhedral graphite</u> ", Applied Physics A, Vol. 77, pages 69-71 (2003)					
	AP	S. IIJIMA et al., " <u>Nano-aggregates of single-walled graphitic carbon nano-horns</u> ", Chemical Physics Letters, Vol. 309, pages 165-170 (1999)					
EXAMINER				DATE CONSIDERED			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.